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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER				
ABRISHAMKAR, KAVEH				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary

Application No.

10/585,854

Applicant(s)

KAMIBAYASHI ET AL.

Examiner

KAVEH ABRISHAMKAR

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date 10/12/2006
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This action is in response to the communication filed on July 12, 2006. Claims 1-17 were originally received for consideration. No preliminary amendments for the claims were received.
2. Claims 1-17 are currently pending consideration.

Information Disclosure Statement

3. An initialed and dated copy of Applicant's IDS form 1449, received on 10/12/2006, is attached to this Office action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Ellison et al. (U.S. Patent 7,305,711).

Regarding claim 1, Ellison discloses:

A content playback apparatus comprising:

a segment key file selecting unit that selects one segment key file from plural segment key files at playback of content from a sequence key section in a recording medium, the recording medium storing a video object which has plural sequence key sections that are groups of contents formed from plural pieces of encrypted contents with different minute portions and the segment key files in which a key entry that associates segment identification information that uniquely identifies a content to be played back among the plural contents in the sequence key section with a segment key that is used for decrypting a content corresponding to the segment identification information for each sequence key section (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the keys is used to decrypt the content symmetric key which is used to decrypt the content during playback*);

a content selecting unit that selects each content corresponding to the segment identification information of the key entry registered in the selected segment key file (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*);

a content decrypting unit that decrypts each selected content by a segment key corresponding to the segment identification information (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the*

keys is used to decrypt the content symmetric key which is used to decrypt the content during playback); and

a playback unit that plays back each decrypted content (column 3, lines 10-15: the playback devices decrypts and plays the content).

Claim 2 is rejected as applied above in rejecting claim 1. Furthermore, Ellison discloses:

The content playback apparatus according to claim 1, wherein
the segment key file is recorded in the recording medium in an encrypted form encrypted by a predetermined encryption key (column 3, lines 5-12: *wherein the symmetric content key is encrypted/decrypted by a selected one of the set of private keys*),

the segment key file selecting unit further decrypts the selected single segment key file with the encryption key, and registers all the key entries registered in the decrypted segment key file in a segment key table (column 4, lines 57-65: *where in the key media block is stored in a table*), and

the content selecting unit selects respective contents corresponding to the series of segment identification information of respective key entries in the decrypted segment key file (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*).

Claim 3 is rejected as applied above in rejecting claim 2. Furthermore, Ellison discloses:

The content playback apparatus according to claim 2, further comprising a storage unit that stores the segment key table in which the key entries of the decrypted segment key files are stored (column 4, lines 57-65: *where in the key media block is stored in a table*),

wherein the segment key file selecting unit further registers all the key entries registered in the decrypted segment key file in the segment key table (column 4, lines 57-65: *where in the key media block is stored in a table*), and

the content selecting unit selects the respective contents corresponding to the series of segment identification information of the key entries registered in the segment key table (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*).

Claim 4 is rejected as applied above in rejecting claim 1. Furthermore, Ellison discloses:

The content playback apparatus according to claim 1, wherein the recording medium further stores content related information which includes a key pointer that indicates an address of the key entry and further includes control information for playback of respective contents of the sequence key section (column 4, lines 57-65: *where in the key media block is stored in a table*),

the content playback apparatus further comprises a related information reading unit that reads out the content related information from the recording medium (column 2, lines 40-46: *wherein a content title is read*),

wherein the content selecting unit selects respective contents corresponding to the series of segment identification information of the key entry indicated by the key pointer of the content related information read out by the related information reading unit (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*).

Claim 5 is rejected as applied above in rejecting claim 1. Furthermore, Ellison discloses:

The content playback apparatus according to claim 1, wherein the sequence key section is recorded in the recording medium in a form of an interleaved block and each content is stored on a basis of an interleaved unit (column 3, lines 42-50), and

the content selecting unit selects each content corresponding to the segment identification information of the key entry on a basis of the interleaved unit (column 2, lines 39-54).

Claim 6 is rejected as applied above in rejecting claim 5. Furthermore, Ellison discloses:

The content playback apparatus according to claim 5, wherein

the content related information further includes block information which indicates whether the interleaved block is the segment key file or not (column 2, lines 63-67: *wherein there is a media key block interleaved with the content data*), and

the content selecting unit selects respective contents corresponding to the series of segment identification information only when the block information in the content related information read out by the related information reading unit indicates that the interleaved block is the segment key file (column 2, lines 63-67: *wherein a private key is needed to decrypt the symmetric content key to play the content*).

Claim 7 is rejected as applied above in rejecting claim 5. Furthermore, Ellison discloses:

The content playback apparatus according to claim 5, wherein the content selecting unit further disables an angle function when the block information in the content related information read out by the related information reading unit indicates that the interleaved block is the segment key file (column 2, lines 63-67: *wherein a private key is needed to decrypt the symmetric content key to play the content thereby precluding any function related to the playing of the content*).

Claim 8 is rejected as applied above in rejecting claim 7. Furthermore, Ellison discloses:

The content playback apparatus according to claim 7, wherein the content selecting unit proceeds to a process relating with the angle function when the block

information in the content related information read out by the related information reading unit indicates that the interleaved block is not the segment key file (column 2, lines 63-67: *wherein a private key is needed to decrypt the symmetric content key to play the content thereby precluding any function related to the playing of the content*).

Claim 9 is rejected as applied above in rejecting claim 5. Furthermore, Ellison discloses:

The content playback apparatus according to claim 5, wherein each interleaved unit in the sequence key section stores address information alone of the interleaved unit that stores content to be processed next (column 2, lines 39-54), and the content selecting unit selects and plays back the interleaved unit to be processed next designated by the address information when the content playback unit completes the playback of the content (column 2, lines 39-54).

Claim 10 is rejected as applied above in rejecting claim 9. Furthermore, Ellison discloses:

The content playback apparatus according to claim 9, wherein, each interleaved unit in the sequence key section stores the address information corresponding to the segment identification information of itself, and stores a value indicating invalidity corresponding to the segment identification information other than the segment identification information of itself (column 2, lines 39-54).

Claim 11 is rejected as applied above in rejecting claim 10. Furthermore, Ellison discloses:

The content playback apparatus according to claim 10, wherein the content selecting unit selects and plays-back the interleaved unit to be processed next by looking up the address information based on the segment identification information of itself when the content playback unit completes the playback of the content (column 3, lines 10-14).

Claim 13 is rejected as applied above in rejecting claim 12. Furthermore, Ellison discloses:

The content playback apparatus according to claim 12, wherein the related information reading unit reads out control information for playback stored in a cell in the recording medium as the content related information (column 2, lines 60-67: *a data structure (cell) called a media block is stored on the DVD*).

Claim 14 is rejected as applied above in rejecting claim 4. Furthermore, Ellison discloses:

The content playback apparatus according to claim 4, wherein the sequence key section is further provided in the video object which corresponds to an Advanced content including content other than video content, audio content, and sub picture content (column 2, lines 43-46).

Claim 15 is rejected as applied above in rejecting claim 14. Furthermore, Ellison discloses:

The content playback apparatus according to claim 14, wherein the related information reading unit further reads out control information for playback stored in a TMAP in the recording medium as the content related information (column 4, lines 27-38: *wherein there is a trust platform module (TPM) which stores the set of private keys needed to playback the content*).

Regarding claim 16, Ellison discloses:

A method of content playback comprising:
selecting one segment key file from plural segment key files at playback of content from a sequence key section in a recording medium, the recording medium storing a video object which has plural sequence key sections that are groups of contents formed from plural pieces of encrypted contents with different minute portions and the segment key files in which a key entry that associates segment identification information that uniquely identifies a content to be played back among the plural contents in the sequence key section with a segment key that is used for decrypting a content corresponding to the segment identification information for each sequence key section (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the keys is used to decrypt the content symmetric key which is used to decrypt the content during playback*);

selecting each content corresponding to the segment identification information of the key entry registered in the selected segment key file (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*);

decrypting each selected content by a segment key corresponding to the segment identification information (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the keys is used to decrypt the content symmetric key which is used to decrypt the content during playback*); and

playing back each decrypted content (column 3, lines 10-15: *the playback devices decrypts and plays the content*).

Regarding claim 17, Ellison discloses:

A computer program product having a computer readable medium including programmed instructions for content playback, wherein the instructions, when executed by a computer, cause the computer to perform:

selecting one segment key file from plural segment key files at playback of content from a sequence key section in a recording medium, the recording medium storing a video object which has plural sequence key sections that are groups of contents formed from plural pieces of encrypted contents with different minute portions and the segment key files in which a key entry that associates segment identification information that uniquely identifies a content to be played back among the plural contents in the sequence key section with a segment key that is used for decrypting a content corresponding to the segment identification information for each sequence key

section (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the keys is used to decrypt the content symmetric key which is used to decrypt the content during playback*);

selecting each content corresponding to the segment identification information of the key entry registered in the selected segment key file (column 2, lines 39-54: *wherein different content is encrypted with different symmetric keys*);

decrypting each selected content by a segment key corresponding to the segment identification information (column 3, lines 4-15: *wherein a set of private keys is stored in a secure manner on a playback device, and one of the keys is used to decrypt the content symmetric key which is used to decrypt the content during playback*); and

playing back each decrypted content (column 3, lines 10-15: *the playback devices decrypts and plays the content*).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAVEH ABRISHAMKAR whose telephone number is (571)272-3786. The examiner can normally be reached on Monday thru Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kaveh Abrishamkar/
Examiner, Art Unit 2131

/K. A./
09/22/08
Examiner, Art Unit 2131